Cherry GmbH
Cherrystrasse
D-91275 Auerbach/Opf.
Phone: +49 (0) 96 43 18 – 0
Hotline: +49 (0) 96 43 18 - 206
Fax: +49 (96 43) 18 - 15 45
Web: www.cherry.de

Cherry Electrical Products Ltd.
Coldharbour Lane
GB-AL5 4UN Harpenden, Herts
Phone: +44 (0) 15 82 76 31 00
Fax: +44 (0) 15 82 76 88 83
Web: www.cherrycorp.com

Cherry Electrical Products
11200 88th Avenue
P.O. Box 981913
Pleasant Prairie
USA-Wisconsin 53158
Phone: +1 (0) 262 9 42 65 00
Fax: +1 (0) 262 9 42 65 66
Web: www.cherrycorp.com

The manufacturer accepts no liability for errors or non-availability, and reserves the right to change specifications without prior notice.
Technical data relate to product specifications only.
Features may differ from those described. Only drawings combined with product specifications shall be deemed binding.

800282, 45414280, E, März '03, 6, Mün,
©2003 Cherry GmbH

There's a professional in everyone

KEYBOARDS

- Keyboards
- Peripheral devices

Contents

4-7 Innovative technologies are the basis of our products
8 Capabilities
10 Environmental management
11 Quality principles

56 International layouts
57 Software
58 Accessories
60 Product finder

Trend Line

12 **You can set trends or you can follow them.**

14 **CyBo@rd**
G83-13000
14 **CyBo@rd USB hub**
G83-13500
14 **CyBo@rd Plus wireless optical**
M83-13900
16 **Power WheelMouse optical**
M-5000
M-5001
16 **Power WheelMouse wireless optical**
M-6000

Green Line

18 **Totally natural. Totally conscious.**

20 **Green Line**
G83-6400

Slim Line

22 **No ifs, ands or buts.**

24 **Ultra-low-profile compact keyboard**
G84-4100
24 **Compact keyboard with trackball**
G84-4400
24 **Keypad**
G84-4700

Classic Line

26 **More than just a keyboard**

28 **Standard keyboard**
G80-3000
28 **Fully-functional 19” keyboard**
G80-1800
28 **Numeric pad**
G80-3700
30 **Standard keyboard**
G81-3000
30 **Fully-functional 19” keyboard**
G81-1800
30 **Standard keyboard with USB hub**
G81-3504
32 **Standard keyboard**
G83-6104/6105
32 **Standard keyboard colored**
G83-6104/6105
32 **Standard keyboard**
G83-6107/6108
34 **Standard keyboard with USB hub**
G83-6504
34 **Standard keyboard spill resistant**
G83-6300

Advanced Performance Line

36 **Especially special. Especially in detail.**

38 **Smart card keyboard to read health insurance cards**
G80-1501
38 **SmartBoard**
G83-6700
38 **SmartBoard**
G81-8015
40 **SmartBoard**
G83-6716
40 **SmartBoard**
G81-8016
40 **SmartBoard**
G83-6702
42 **SmartBoard**
G83-6733
42 **Smartcard reader**
ST-1000
42 **FingerTIP ID Board**
G83-14000
G83-14100
44 **MultiBoard**
G81-7000
G81-8000

46 **MultiBoard**
G80-8200
G80-8212
48 **MultiBoard**
G81-8308
48 **MultiBoard**
G81-8004
G81-8005
G81-8006
50 **MultiBoard**
G81-8002
G81-8003
50 **MultiBoard**
G81-8010
52 **MultiBoard**
G80-8202
52 **MultiBoard**
G80-8113/8116
54 **POS keyboard**
G80-1950
54 **TouchBoard**
G80-11900

INNOVATIVE TECHNO-LOGIES

are the basis of our products

★★★★★ MX technology

Mechanical Keys

Our keyboards fulfill the highest expectations with MX keys. Each of these keys has gilt, cross-arranged contacts (“Gold Crosspoint”).
This technology, proven a million times over, assures high and reliable typing performance even after years of extreme and intensive use. In addition, the MX keys are further enhanced by the three different key actions (linear, soft, and click-tactile feel).
The robust “MX keyboards” are recognizable by the product designation “G80” in the number key.

Key benefits:
- Extremely long life and high reliability due to the well-engineered Gold Crosspoint contacts
- Individual key actions (linear, soft, and click-tactile feel)
- Key action: Total travel:
  Linear 4 $^{-0.4}$ mm
  Soft tactile feel 4 $^{-0.5}$ mm
  Click tactile feel 4 $^{-0.5}$ mm
- Very long life for keys
- High-contrast and abrasion-proof keycap writing

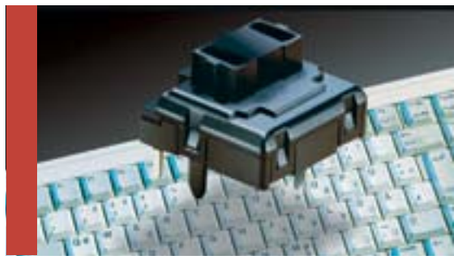
★★★★★ ML technology

Mechanical Keys

Reliable and compact – both of these qualities distinguish our keyboards with ML keys. With its gilt, cross-arranged contacts (“Gold Crosspoint”), the ML key module is just a reliable and failsafe as the MX key module. Due to its extremely low height, the ML key module is ideally suited for the keyboards in our Slim Line. The compact “ML keyboards” are recognizable by the product designation “G84” in the number key.

Key benefits:
- Extremely long life and high reliability due to the well-engineered Gold Crosspoint contacts
- Extremely low height (including keycap less than 12mm)
- Key action: Soft contact total travel: 3 $^{-0.5}$ mm
- Very long life for keys
- High-contrast keycap writing

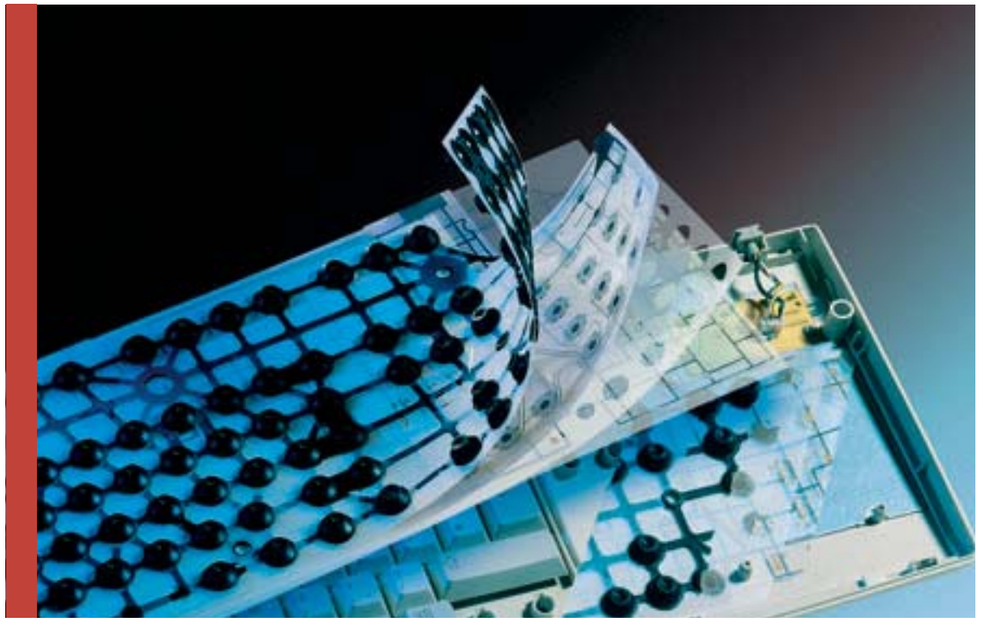
MX technology



ML technology

Automatic keycap mounting

FTSC technology



NTK technology

★★★★☆ FTSC technology

Membrane contact switches with mechanical module

Secure and reliable — the combination of mechanical modules and a multi-layer contact membrane results in the unique FTSC (Full Travel Sealed Contact) technology recognized worldwide — Made by Cherry.
At the heart of the contact system is a leaf switch inside the switch which, when actuated, presses the two membranes together until contact is made.
The robust “FTSC keyboards” are recognizable by the product designation “G81” in the number key.

Key benefits:
- Long life and reliability
- Key action: Soft contact total travel: 3,9 ±0.35 mm
- Very long life for keys
- High-contrast and abrasion-proof keycap writing

★★★☆☆ NTK technology

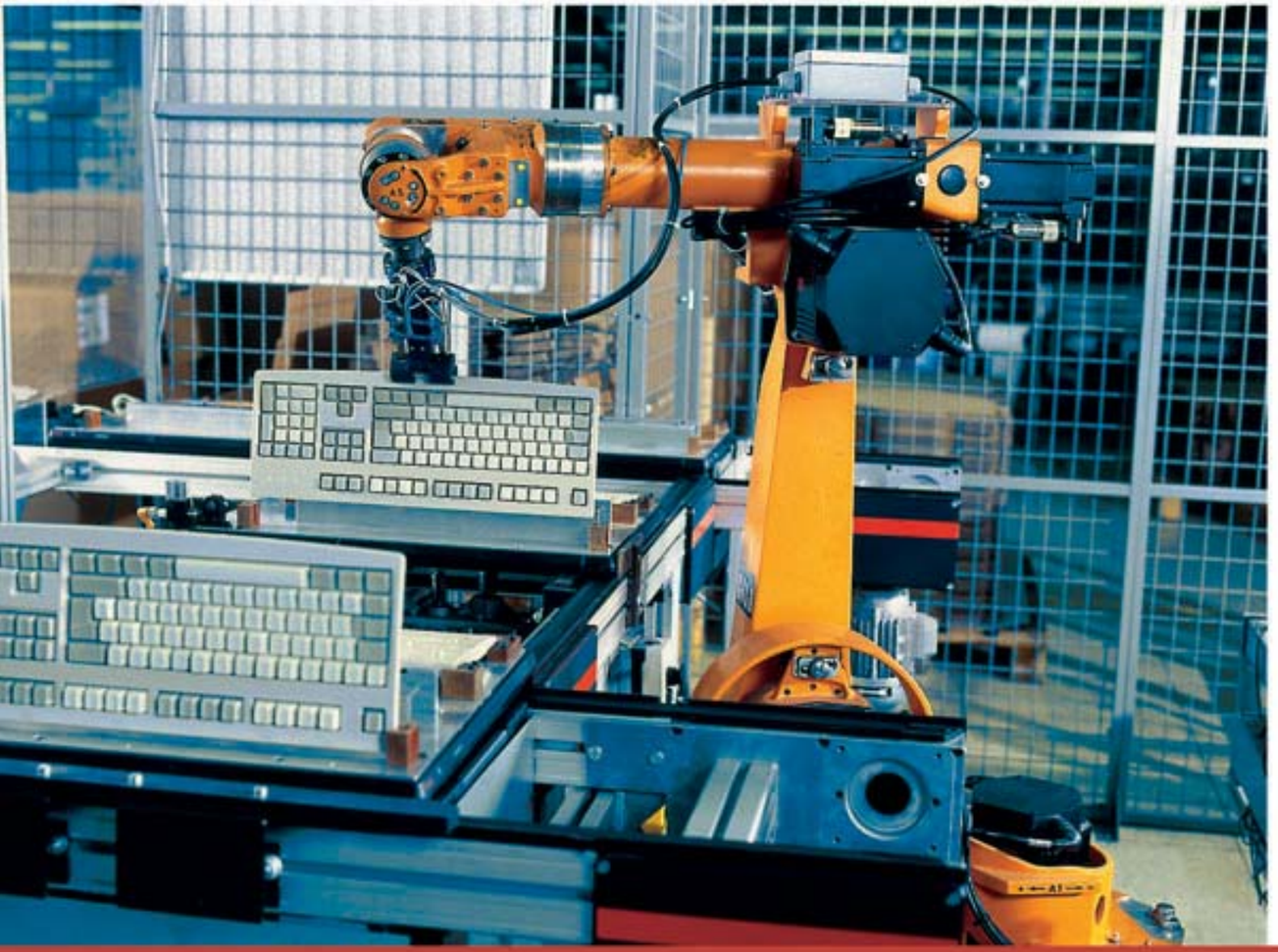
Membrane contact switches with rubber-mat technology

Eco friendly, long-lived, and reliable — these qualities guarantee our NTK technology. With NTK technology, there is a rubber mat on a multi-layer contact switch with specially-developed contact surfaces. The keycaps are placed in the key housing. The membrane assembly is pressed together by the actuation dome of the rubber mat and triggers the contact reliably. Because of NTK keyboards’ long service life and recyclability, Cherry was the world’s first keyboard manufacturer to be granted the right to display the “Blue Angel” environmental symbol on its products. The eco-friendly “NTK keyboards” are recognizable by the product designation “G83” in the number key.

Key benefits:
- Very long life and reliability, proven a million times over
- Long-lived and recyclable
- Key action: Tactile feel total travel: approx. 4.25 mm
- Very long life for keys
- High-contrast and abrasion-proof keycap writing

Robots manufacture keyboard membranes in clean-room conditions

CAPA-BILITIES



High quality standards combined with the development of innovative products, an innate flexibility and a perceived dependability in our work with our customers have turned Cherry into one of the world's largest and most successful manufacturers of data input devices.
As we seek to remain competitive while continuing to adhere to our own stringent quality requirements, the automation of our production processes is gaining steadily in importance.
Finely-tuned manufacturing facilities based on industrial robots, fully automated assembly lines, integrated process control and an almost total automation of inspection procedures have been central to Cherry's working practices for a number of years.
Our management system (quality and environment) complies with all requirements of DIN EN ISO 9001:2000 and 14001, QS 9000, VDA 6.1 and the EC Eco-Audit Directive.

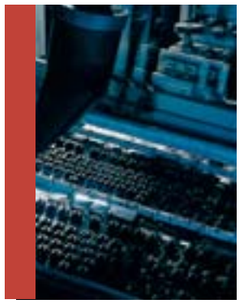
Durability test under harsh conditions

A robot tester puts our keyboards through a 100% performance test

Fully-automated keyboard manufacture

Manufacturing keyboards on a modern robot assembly line

ESD tests in the lab


Keyboards are soldered in a solder bath

ENVIRONMENT

Environmental protection has been a key component of Cherry's corporate strategy for years and is firmly rooted in the company's philosophy. Our environmental principles encapsulate this approach:

Since we all share responsibility for our world, each one of us must give proper thought to the consequences of our daily actions and behavior. This basic precept represents the cornerstone of our environmental objectives:

1. We will use the world's natural resources sparingly.
2. We will develop and manufacture products that impose the least possible burden on people and the environment.
3. We will comply with prevailing environmental legislation and, by imposing our own strict standards, continually strive to improve our performance in terms of corporate environmental protection.
4. We will strive to adhere to this code of conduct by subjecting our activities to regular reviews.
5. We will promote an awareness of individual responsibility for a healthy environment amongst our staff and all our business associates.

Thus in 1995, Cherry became one of the first companies in Europe to become validated and then certified according to the EU Eco-Audit directive and DIN EN ISO 14001. Since then we have been able to prove the efficiency of our environmental management system in the course of yearly external audits. In 2001 not only were our factories in Auerbach and Wolfsbach certified, but for the first time, our location in Klasterec in the Czech Republic. Awards for "environmentally friendly company management" from the Arbeitsgemeinschaft selbständiger Unternehmer e.V. (association of independent entrepreneurs) and the listing of our ecology declaration in a book on exemplary ecology reports ("Vorbildliche Umweltberichte") are further proof of our rigorous work in the field of environmental protection. One of our first priorities, even in the early design stages, is to ensure that our keyboards are easy to recycle. This has a number of implications: the keyboard must be easy to dismantle, plastics must be clearly identified, printing inks and sticky labels avoided and hazardous materials – such as flame inhibitors in keyboard housings – eliminated. In 1994, Cherry keyboards were the first in the world to be awarded the "Blue Angel" environmental symbol, thanks to their long operating life and recyclability.

In the future, we will continue to ensure that you can always turn to keyboards developed and manufactured by Cherry when you are looking for an ecologically-compatible input device for your computer.

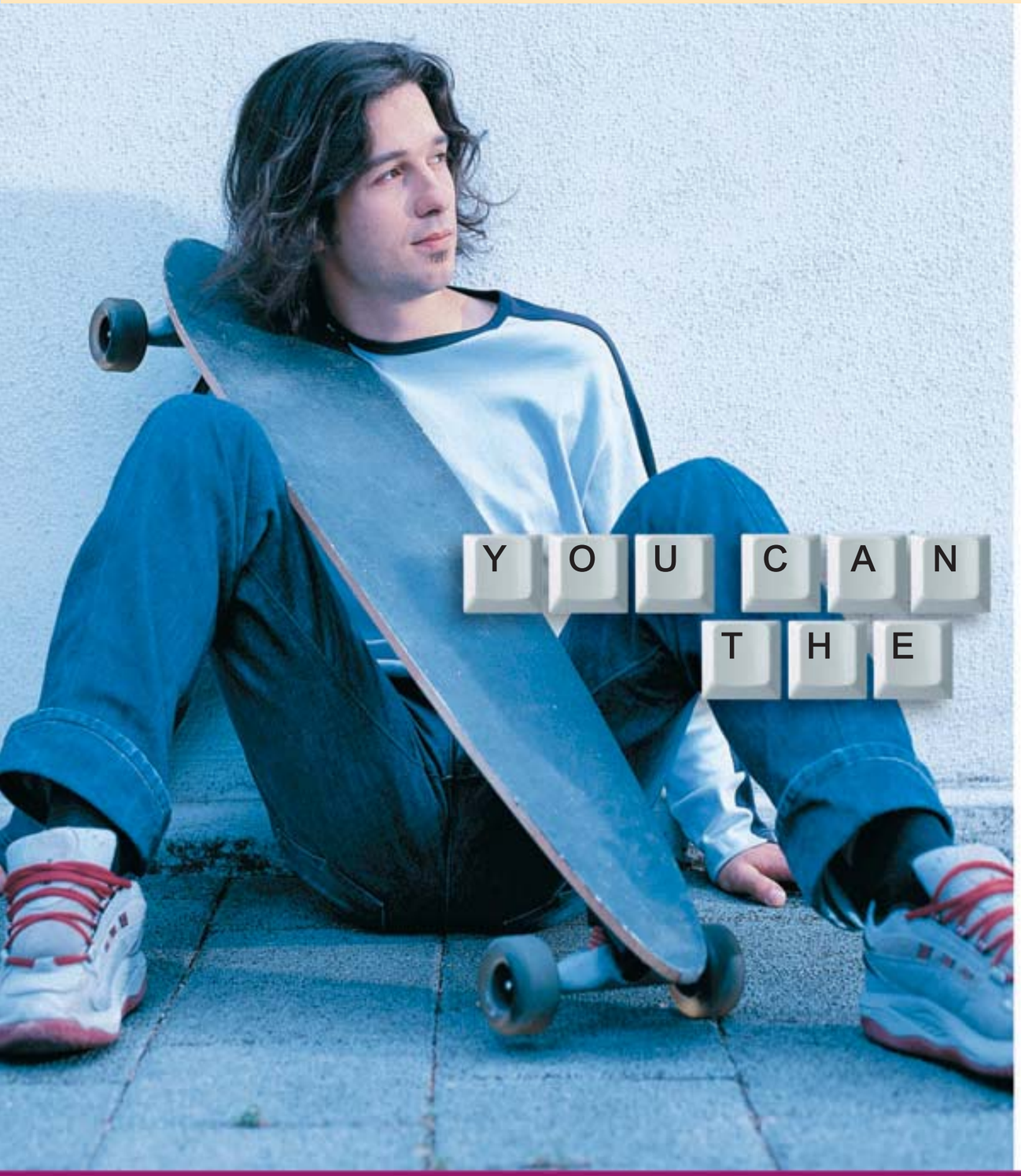
After all...
A healthy world does not happen by accident - we must all play our part.

Unweltzeichen
weil langlebig und recyclinggerecht

QUALITY PRINCIPLES

Our attitude and the quality of our thinking are the driving force behind the quality of our products and services.

1. Customer satisfaction is an essential component and declared goal of our corporate mission. We have internal and external customers. Both are equally important.
2. At Cherry, the quality assurance process has the full backing of senior management.
3. Quality assurance at Cherry goes beyond the products and encompasses the totality of our services.
4. Quality assurance at Cherry aims to constantly improve all services.
5. Our primary objective is to achieve zero defects in every aspect of our activities.
6. Cherry's quality assurance system complies with the requirements of the DIN EN ISO 9001:2000, QS 9000 and the VDA-Volume 6.1 "Quality Management in the Automotive Industry" and related customer requirements.



Surfing, e-mailing, chatting and, and, and – when you go online you need future-oriented technologies. Like the keyboards and mice from our Trend Line. Innovative technology and individual design – for users who like to set trends.

FOLLOW
TRENDS

or you can set them.

Trend Line

Microsoft is a registered trademark of Microsoft Corporation.
Details of other approvals available on request.

CyBo@rd

Key benefits:
- NTK technology
- Internet keyboard with 19 HotKeys
- Removable palm rest
- All HotKeys function under Windows ME and XP without additional drivers
- Combined PS/2 and USB interfaces
- incl. KeyM@n software for user definition of the HotKeys (see page 57)

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 1475 g
Dimensions:	485 x 246 x 40 mm (incl. palm rest)
Current consumption:	max. 100 mA
Connection:	Combined USB and PS/2

Order description	**Color Keyboard/Palm rest**
G83-13000LBAxx-0	light grey/black
G83-13000LCAxx-2	black/silver
G83-13010LCAxx-0	light grey/grey

2-port USB hub

Microsoft is a registered trademark of Microsoft Corporation.
Details of other approvals available on request.

CyBo@rd USB hub

Key benefits:
- NTK technology
- Integrated USB hub with two downstream ports for easy and comfortable connection of USB devices (plug and play)
- Bus-powered USB hub
- Internet keyboard with 19 HotKeys
- All HotKeys function under Windows ME and XP without additional drivers
- incl. KeyM@n software for user definition of the HotKeys (see page 57)

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 1475 g
Dimensions:	485 x 246 x 40 mm (incl. palm rest)
Current consumption:	max. 300 mA
Current output:	max. 100mA per downstream port
Connection:	USB
Transmission speed:	max. 12 MBit/sec

Order description	**Color Keyboard/Palm rest**
G83-13500LCAxx-2	black/silver

Microsoft is a registered trademark of Microsoft Corporation.
Details of other approvals available on request.

CyBo@rd Plus wireless optical

Key benefits:
- Cordless keyboard with optical mouse
- Energy-saving; batteries in the mouse can be recharged during use
- High interference immunity thanks to choice of 256 channels
- High mouse resolution of up to 800 dpi for precise, quick working
- No maintenance through optical sensor
- incl. KeyM@n software for user definition of the HotKeys (see page 57)

Technical specifications

Weight (incl. packaging):	approx. 1960 g
Dimensions:	485 x 246 x 40 mm (keyboard) 121 x 62 x 39 mm (mouse)
Connection (receiver):	2 x PS/2
Frequency range:	ca. 2.4 Ghz
Transmission range:	approx. 5 m
Resolution (mouse):	800 dpi

Order description	**Color Keyboard/Palm rest**
M83-13900xx	black/silver

xx = International layouts (see page 56)

Microsoft is a registered trademark of Microsoft Corporation.

Details of other approvals available on request.

Power WheelMouse optical

Key benefits:

- No maintenance through optical sensor
- High mouse resolution of up to 800 dpi for precise, quick working
- Soft Touch surface for ease of use
- Elegant design, ideally suited for right-handed and left-handed users
- Light-up scroll wheel (M-5000 red, M-5001 blue)
- incl. software for individual configuration

Technical specifications

Cable length:	approx. 1.80 m
Weight (incl. packaging):	approx. 350 g
Dimensions:	121 x 62 x 39 mm
Current consumption:	typically 50 mA
Connection:	Combined USB and PS/2
Resolution:	800 dpi

Order description	Color
M-5000	black
M-5001	blue/silver

Microsoft is a registered trademark of Microsoft Corporation.

Details of other approvals available on request.

Power WheelMouse wireless optical

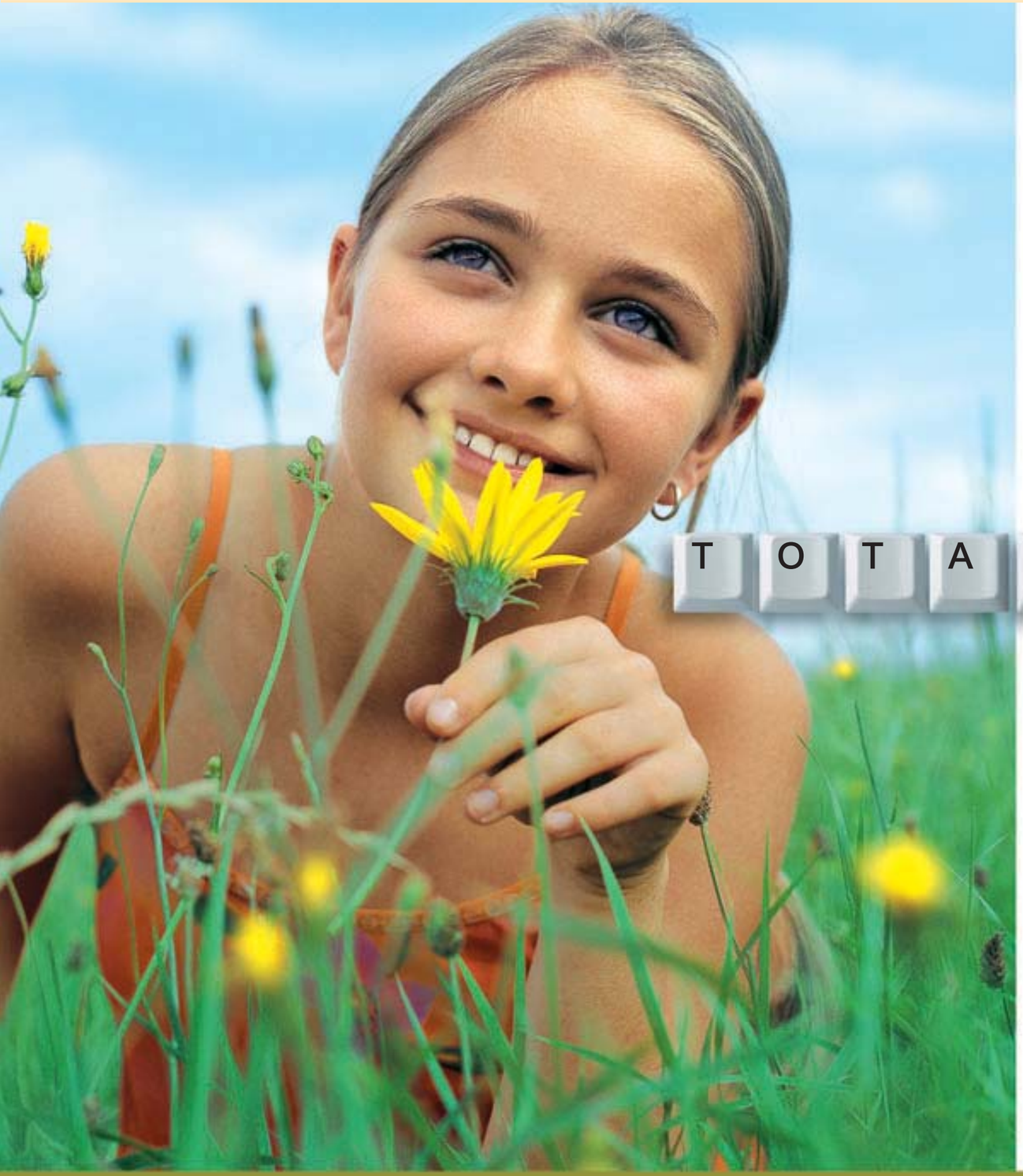
Key benefits:

- Free movement of the mouse without interfering cable
- Long battery life due to energy-saving electronics and configurable wake-up function
- No maintenance through optical sensor
- High mouse resolution of up to 800 dpi for precise, quick working
- 4096 IDs allow parallel operation of several mice
- Ergonomic form for comfortable handling
- incl. software for individual configuration

Technical specifications

Weight (incl. packaging):	approx. 500 g
Dimensions:	130 x 75 x 35 mm
Connection (receiver):	Combined USB and PS/2
Frequency range:	approx. 27 MHz
Transmission range:	approx. 2 m
Resolution:	800 dpi

Order description	Color
M-6000	black/silver



You can show awareness for the environment – e.g. by choosing to use a keyboard that meets the highest environmental requirements.
Like our Green Line.
The world‘s first PC keyboard for those who care about the environment.

TOTALLY NATURAL

Totally conscious.

Green Line

Microsoft is a registered trademark of Microsoft Corporation.

Details of other approvals available on request.

Green Line

Key benefits:

- NTK technology
- The world's first keyboard for those who care about the environment.
  - Halogen-free
  - PVC-free
  - Electricity-saving
  - Recycling guarantee.

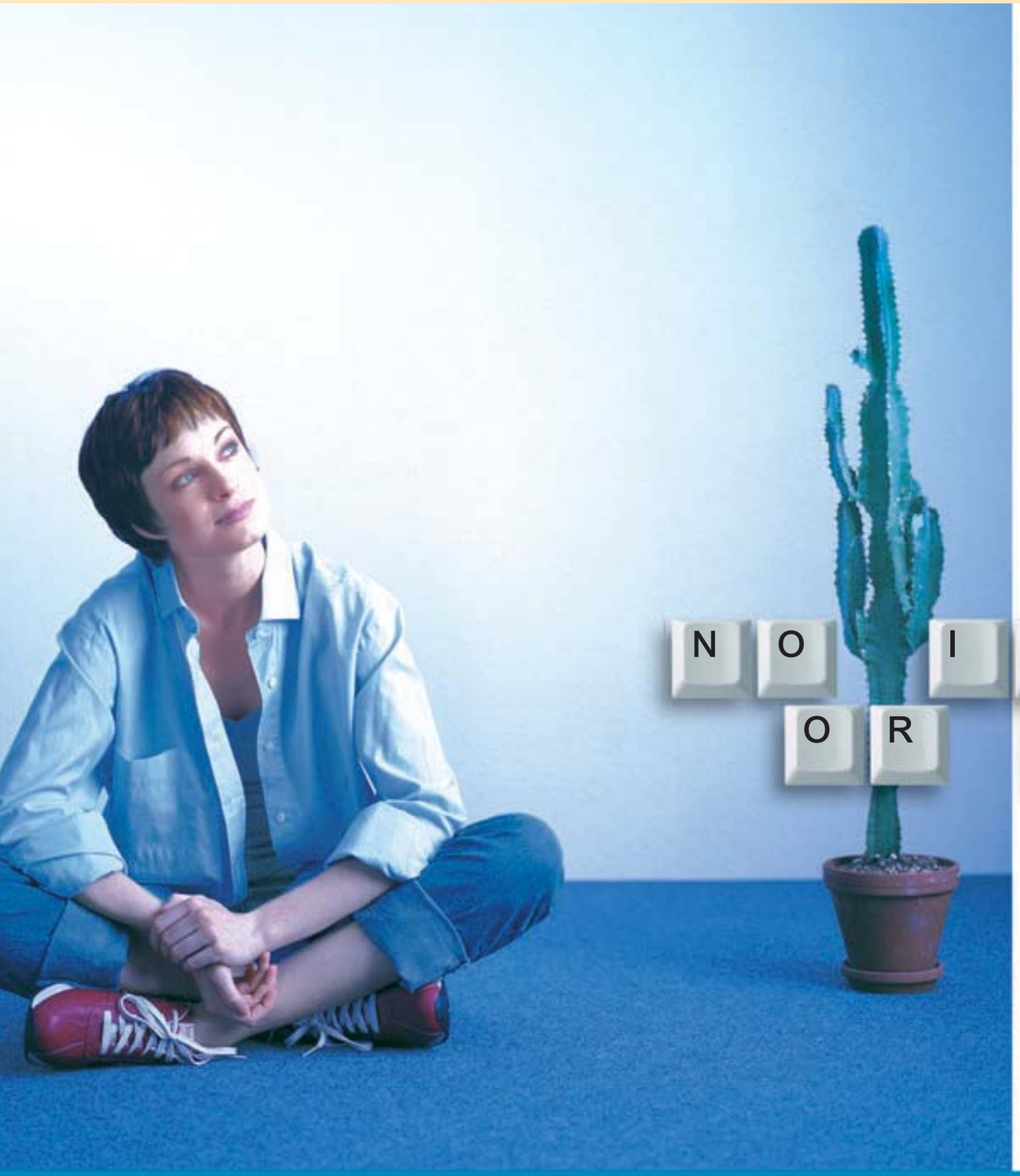
In collaboration with the Federation for the Protection of Nature and the Environment

Technical specifications

Cable length:	1.75 m
Weight (incl. packaging):	approx. 1140 g
Dimensions:	458 x 170 x 42 mm
Current consumption:	typically 35 mA
Connection:	PS/2

Order description	**Color**
G83-6400LPNxx-0	light grey

xx = International layouts (see page 56)



The Slim Line has been developed specially for space-saving applications.
These compact, ultra-flat keyboards are used everywhere where small size and light weight play a decisive role.

Slim Line

Microsoft is a registered trademark of Microsoft Corporation.

Details of other approvals available on request.

Compact keyboard G84-4100

Key benefits
- ML technology with Gold Crosspoint contacts
- Small measurements
- Light weight
- Also available without “Windows keys“ (83 keys)
- Combined PS/2 and USB interfaces

Technical specifications

Cable length:	1.75 m
Weight (incl. packaging):	approx. 500 g
Dimensions:	282 x 132 x 27 mm
Current consumption:	max. 100 mA

Order description	Color	Keys number	connection
G84-4100LCMxx-0	light grey	86	Combined USB and PS/2
G84-4100PTMxx	black	86	Combined USB and PS/2
G84-4100LCAxx-0	light grey	83	Combined USB and PS/2
G84-4100PTAxx	black	83	Combined USB and PS/2

Details of other approvals available on request.

Compact keyboard with trackball G84-4400

Key benefits
- ML technology with Gold Crosspoint contacts
- Small measurements
- Light weight
- Integrated 16 mm trackball plus 2 mouse keys

Technical specifications

Cable length:	1.75 m
Weight (incl. packaging):	approx. 700 g
Dimensions:	370 x 139 x 20 mm
Current consumption:	USB: max. 100 mA PS/2: max. 32 mA (keyboard) typically 5 mA (trackball)

Order description	Color	Connection
G84-4400LUBxx-0	light grey	USB
G84-4400PTBxx	black	USB
G84-4400LPBxx-0	light grey	2x PS/2
G84-4400PRBxx	black	2x PS/2

for PS/2-version

Details of other approvals available on request.

Keypad G84-4700

Key benefits
- ML technology with Gold Crosspoint contacts
- Numeric keypad with four additional, individually-inscribable function keys
- Ideal for left- and right-handed users
- All keys can be user-defined with software (see page 57)

PS/2 variants:
- 20 user-definable keys
- External standard keyboard can be connected to integrated PS/2 connector

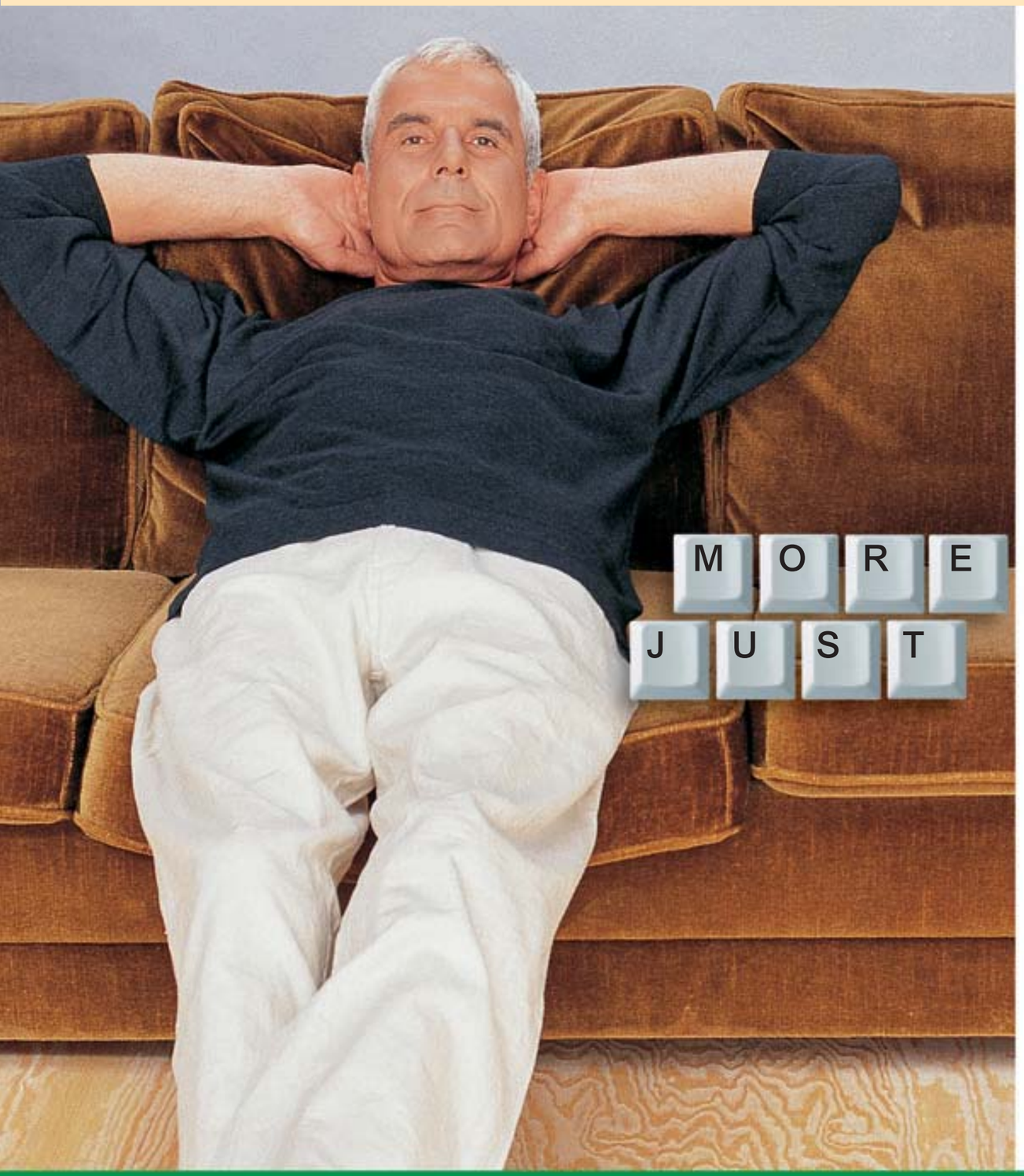
Technical specifications

Cable length:	1.75 m
Weight (incl. packaging):	approx. 260 g
Dimensions:	90 x 132 x 36 mm
Current consumption:	PS/2: typically 50 mA USB: max. 100 mA

Order description	Color	Connection
G84-4700LPBxx-0	light grey	PS/2
G84-4700LUCxx-0 *	light grey	USB
G84-4700PRBxx	black	PS/2
G84-4700PUCxx-2 *	black	USB

*available as of June 2003

xx = International layouts (see page 56)



THAN
A KEYBOARD

Standard doesn't have to mean boring. Our Classic Line keyboards prove this. Timeless design, reliable service, and innovative engineering – with MX, FTSC or NTK technology – your choice.

Classic Line

Microsoft is a registered trademark of Microsoft Corporation.

Details of other approvals available on request.

G80-3000

Key benefits
- MX technology with Gold Crosspoint contacts
- The timeless keyboard for high-volume data input and for the most demanding requirements.
- Very long life for keys
- 3 different key actions: linear, soft or click tactile feel
- Also available as USB hub variant with four downstream ports

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 1400 g
Dimensions:	470 x 195 x 44 mm
Current consumption:	typically 35 mA
Number of keys:	104/105

Order description	Color	Connection	Key action
G80-3000LPMxx-0	light grey	PS/2	Linear
G80-3000LQMxx-0	light grey	PS/2	Soft
G80-3000LSMxx-0	light grey	PS/2	Click
G80-3000LUNxx-0	light grey	USB	Linear
G80-3504LADxx-0	light grey	USB hub	Linear

Microsoft is a registered trademark of Microsoft Corporation.

Details of other approvals available on request.

G80-1800

Key benefits
- MX technology with Gold Crosspoint contacts
- Fully-functional and compact 19“ PC keyboard — space-saving and ergonomic
- The timeless keyboard for high-volume data input and for the most demanding requirements.
- Very long life for keys

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 1190 g
Dimensions:	405 x 180 x 44 mm
Current consumption:	typically 35 mA
Number of keys:	104/105

Order description	Color	Connection	Key action
G80-1800LAMxx-0	light grey	DIN	Linear
G80-1800LPMxx-0	light grey	PS/2	Linear

Details of other approvals available on request.

Keypad G80-3700

Key benefits
- MX technology with Gold Crosspoint contacts
- Numeric keypad with four additional, individually-inscribable function keys
- Ideal for left- and right-handed users
- All keys can be user-defined with up to 24 characters per key
- External standard PS/2 keyboard can be connected

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 460 g
Dimensions:	108 x 195 x 44 mm
Current consumption:	typically 50 mA
Number of keys:	21

Order description	Color	Connection	Key action
G80-3700HQAxx-0	light grey	PS/2	Linear

xx = International layouts (see page 56)

Microsoft is a registered trademark of Microsoft Corporation.
Details of other approvals available on request.

G81-3000

Key benefits
- FTSC technology
- High-quality keyboard for professional users
- Timeless design
- Also available without “Windows keys“ (101/102 keys)

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 1620 g
Dimensions:	470 x 195 x 44 mm
Current consumption:	max. 35 mA

Order description	Color	Connection	Number of keys
G81-3000LGDxx-0	light grey	DIN	101/102
G81-3000LCNxx-0	light grey	DIN	104/105
G81-3000LPDxx-0	light grey	PS/2	101/102
G81-3000LRNxx-0	light grey	PS/2	104/105
G81-3000LRNxx-2	black	PS/2	104/105
G81-3000LUNxx-0	light grey	USB	104/105

Microsoft is a registered trademark of Microsoft Corporation.
Details of other approvals available on request.

G81-1800

Key benefits
- FTSC technology
- Fully-functional and compact 19“ PC keyboard — space-saving and ergonomic
- High-quality keyboard for professional users
- Also available without “Windows keys“ (101/102 keys)

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 1590 g
Dimensions:	405 x 180 x 44 mm
Current consumption:	max. 35 mA

Order description	Color	Connection	Number of keys
G81-1800LAAxx-0	light grey	DIN	101/102
G81-1800LAMxx-0	light grey	DIN	104/105
G81-1800LPAxx-0	light grey	PS/2	101/102
G81-1800LPMxx-0	light grey	PS/2	104/105
G81-1800LPMxx-2	black	PS/2	104/105
G81-1800LUMxx-0	light grey	USB	104/105

4-port USB hub

Microsoft is a registered trademark of Microsoft Corporation.
Details of other approvals available on request.

G81-3504 USB hub

Key benefits
- FTSC technology
- Integrated USB hub with four downstream ports for easy and comfortable connection of USB devices (plug and play)
- Bus-powered USB hub
- High-quality keyboard for professional users

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 1700 g
Dimensions:	470 x 195 x 44 mm
Current consumption:	max. 500 mA
Current output:	max. 100 mA per downstream port
Transmission speed:	max. 12 MBit/sec

Order description	Color	Connection	Number of keys
G81-3504LADxx-0	light grey	USB	104/105

xx = International layouts (see page 56)

Microsoft is a registered trademark of Microsoft Corporation.

Details of other approvals available on request.

G83-6104/6105

Key benefits
- NTK technology
- Space-saving, compact construction
- Long-lived and recyclable
- Uniform operation diagram
- Comfortable key action
- Abrasion-proof writing on keycaps

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 1140 g
Dimensions:	458 x 170 x 42 mm
Current consumption:	typically 35 mA

Order description	Color	Connection	Number of keys
G83-6104LRNxx-0	light grey	PS/2	104
G83-6104LRNxx-2	black	PS/2	104
G83-6104LUNxx-0	light grey	USB	104
G83-6104LUNxx-2	black	USB	104
G83-6105LRPxx-0	light grey	PS/2	105
G83-6105LRNxx-2	black	PS/2	105
G83-6105LUNxx-0	light grey	USB	105
G83-6105LUNxx-2	black	USB	105

Microsoft is a registered trademark of Microsoft Corporation.

Details of other approvals available on request.

G83-6104/6105 colored

Key benefits
- NTK technology
- Available in various color combinations
- Space-saving, compact construction
- Long-lived and recyclable
- Uniform operation diagram
- Comfortable key action
- Abrasion-proof writing on keycaps

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 1140 g
Dimensions:	458 x 170 x 42 mm
Current consumption:	typically 35 mA
Connection:	PS/2

Order description	Color Housing/Keys	Number of keys
G83-6104LRNxx-3	silver/black	104
G83-6104LRNxx-4	black/light grey	104
G83-6104LRNxx-5	silver/light grey	104
G83-6104LRNxx-6	black/yellow	104
G83-6105LRNxx-3	silver/black	105
G83-6105LRNxx-4	black/light grey	105
G83-6105LRNxx-5	silver/light grey	105
G83-6105LRNxx-6	black/yellow	105

xx = International layouts (see page 56)

G83-6107/6108

Key benefits
- NTK technology
- Double assignment of function keys for quick access to Office functions
- Three additional HotKeys with the following functions:
  – Multimedia variant:
    Volume +/Mute/Volume -
  – Internet variant:
    Home page/Favorites/E-mail
- Combined PS/2 and USB interfaces
- Space-saving, compact construction
- incl. KeyMan software for user definition of the HotKeys (see page 57)

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	1140 g
Dimensions:	458 x 170 x 42 mm
Current consumption:	typically 35 mA
Connection:	Combined USB and PS/2

Order description	Color	Type	Number of keys
G83-6107LCMxx-0	light grey	Multimedia	107
G83-6107LCMxx-2	black	Multimedia	107
G83-6107LCHxx-0	light grey	Internet	107
G83-6107LCHxx-2	black	Internet	107
G83-6108LCMxx-0	light grey	Multimedia	108
G83-6108LCMxx-2	black	Multimedia	108
G83-6108LCHxx-0	light grey	Internet	108
G83-6108LCHxx-2	black	Internet	108

Microsoft is a registered trademark of Microsoft Corporation.
Details of other approvals available on request.

4-port USB hub

G83-6504
USB hub

Key benefits
- NTK technology
- Integrated USB hub with four downstream ports for easy and comfortable connection of USB devices (plug and play)
- Bus-powered USB hub
- Space-saving, compact construction
- Abrasion-proof writing on keycaps

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 1350 g
Dimensions:	458 x 195 x 42 mm
Current consumption:	max. 500 mA
Current output:	max. 100mA per downstream port
Transmission speed:	max. 12 MBit/sec
Connection:	USB

Order description	Color	Number of keys
G83-6504LADxx-0	light grey	104/105

Microsoft is a registered trademark of Microsoft Corporation.
Details of other approvals available on request.

G83-6300
Spill-resistant

Key benefits
- NTK technology
- Keyboard continues to function normally even if liquids such as coffee, water etc. penetrate the housing.
- Abrasion-proof writing on keycaps

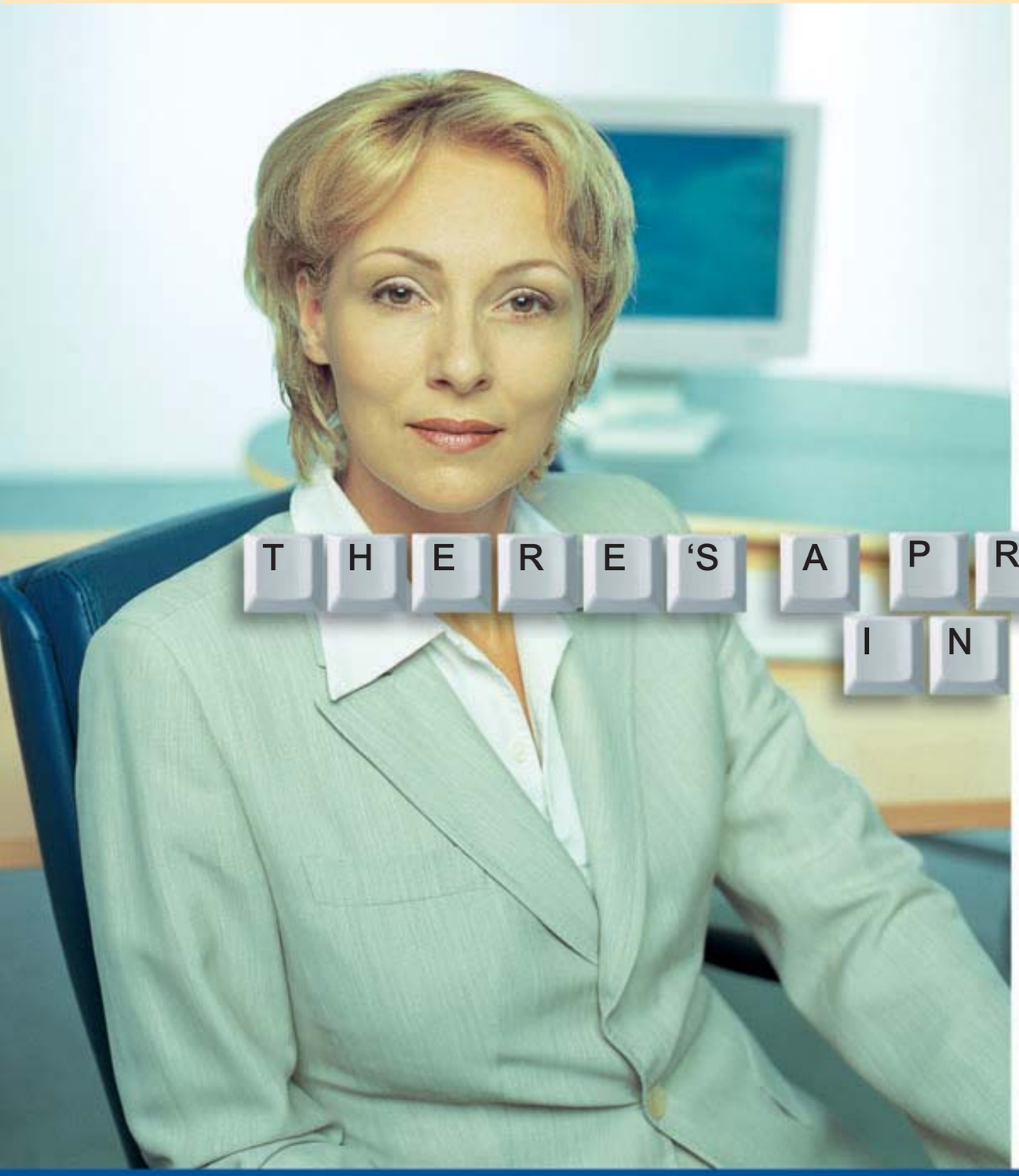
Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 1140 g
Dimensions:	458 x 170 x 42 mm
Current consumption:	typically 35 mA
Connection:	PS/2

Order description	Color	Number of keys
G83-6300LPNxx-0	light grey	104/105

xx = International layouts (see page 56)

Microsoft is a registered trademark of Microsoft Corporation.
Details of other approvals available on request.



When standard keyboards reach their limits, it’s time to use our Advanced Performance Line. These high-quality keyboards have various additional equipment such as smart card readers, magnetic stripe card readers, bar code readers, and fingerprint sensors; they make your professional work easy.

THERE‘S A PROFESSIONAL IN EVERYONE

especially in detail.

Advanced Performance Line

Details of other approvals available on request.

G80-1501

Key benefits
- MX technology with Gold Crosspoint contacts
- High-quality keyboard with integrated smart card reader on the side to read German health insurance cards.
- Certified according to ITSEC E2 low
- Space savings
- No additional interface required, no additional cable
- User-friendly; simple installation and use

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 1600 g
Dimensions:	486 x 208 x 45 mm
Current consumption:	typically 60 mA
Mating cycles (smart card reader):	approx. 200,000

Order description	Color	Connection	Other
G80-1501HAD	light grey	PS/2	Certified

Microsoft is a registered trademark of Microsoft Corporation.
Details of other approvals available on request.

SmartBoard G83-6700

Key benefits
- NTK technology
- ITSEC E2 certified high for electronic signatures
- Secure PIN entry (class 2 reader)
- PC/SC smart card reader
- CT-Api and B1 support
- Protocols T=0 and T=1

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 1500 g
Dimensions:	458 x 195 x 54 mm
Current consumption:	typically 100 mA
Mating cycles (smart card reader):	approx. 100,000

Order description	Color	Connection	Other
G83-6700LQAxx-0	light grey	PS/2+RS232	
G83-6700LQAxx-2	black	PS/2+RS232	
G83-6700LQZxx-0	light grey	PS/2+RS232	Certified

Microsoft is a registered trademark of Microsoft Corporation.
Details of other approvals available on request.

SmartBoard G81-8015

Key benefits
- FTSC technology
- Electronic like G83-6700
- Variant in high-quality housing with longest life

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 2250 g
Dimensions:	470 x 220 x 64 mm
Current consumption:	typically 100 mA
Mating cycles (smart card reader):	approx. 200,000

Order description	Color	Connection	Other
G81-8015LQZxx-0	light grey	PS/2+RS232	Certified

xx = International layouts (see page 56)

SmartBoard G83-6716

Key benefits
- NTK technology
- GemCore technology
- Compatible with GemPC 410
- PC/SC smart card reader
- CT-Api support
- Protocols T=0, T=1, S=8, S=9 and S=10

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 1500 g
Dimensions:	458 x 195 x 54 mm
Current consumption:	typically 100 mA
Mating cycles (smart card reader):	approx. 100,000

Order description	Color	Connection
G83-6716LQAxx-0	light grey	PS/2+RS232
G83-6716LQAxx-2	black	PS/2+RS232

SmartBoard G81-8016

Key benefits
- FTSC technology
- Electronic like G83-6716; Variant in high-quality housing and with longest life

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 2250 g
Dimensions:	470 x 220 x 64 mm
Current consumption:	typically 100 mA
Mating cycles (smart card reader):	approx. 200,000

Order description	Color	Connection
G81-8016LQAxx-0	light grey	PS/2+RS232

SmartBoard G83-6702/6759

Key benefits
- NTK technology
- USB keyboard with smart card reader
- CardMan 2020-compatible
- 2 downstream ports (USB hub only 6702)
- PC/SC smart card reader
- CT-Api support
- Protocols T=0, T=1, S=8, S=9 and S=10

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 1500g
Dimensions:	458 x 195 x 54 mm
Current consumption:	typically 100 mA
Connection:	USB
Mating cycles (smart card reader):	approx. 100,000

Order description	Color	Hub
G83-6702LPAxx-0	light grey	yes
G83-6702LPAxx-2	black	yes
G83-6759LPAxx-0	light grey	-
G83-6759LPAxx-2	black	-

xx = International layouts (see page 56)

EMVCo
USB
Microsoft is a registered trademark of Microsoft Corporation.
Details of other approvals available on request.

SmartBoard G83-6733

Key benefits
- NTK technology
- USB keyboard with smart card reader
- Secure PIN entry (class 2 reader)
- EMV Level 1-approved
- PC/SC smart card reader
- Protocols T=0 and T=1
- GemCore technology

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 1500 g
Dimensions:	458 x 195 x 54 mm
Current consumption:	typically 100 mA
Mating cycles (smart card reader):	approx. 100,000

Order description:	Color	Connection
G83-6733LUAxx-0	light grey	USB
G83-6733LUAxx-2	black	USB

USB
linux
Microsoft is a registered trademark of Microsoft Corporation.
Details of other approvals available on request.

Smartcard Reader

Key benefits
- High-quality smart card reader with USB connection
- CardMan 2020-compatible (ST-1000U)
- “One-hand operation“ possible due to heavy weight and stable base
- PC/SC smart card reader
- CT-Api support
- Protocols T=0, T=1, S=8, S=9 and S=10

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 350 g
Dimensions:	75 x 51 x 55 mm
Current consumption:	typically 100 mA
Mating cycles (smart card reader):	approx. 100,000

Order description	Color	Connection
ST-1000UA	light grey/blue	USB
ST-1000UB	light grey/black	USB

FingerTIP ID Board G83-14000/14100

Key benefits
- NTK technology
- USB keyboard with capacitive fingerprint sensor, USB hub
- Optional PC/SC smart card reader
- Capacitative fingerprint sensor 513 dpi, 224x288 pixel
- USB hub with two downstream ports
- Smart card reader CardMan 2020-compatible
- Logon software

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 1500 g
Dimensions:	458 x 195 x 54 mm
Current consumption:	typically 100 mA
Mating cycles (smart card reader):	approx. 100,000

Order description	Color	Connection	Smart card reader
G83-14000LPAxx-0	light grey	USB	Yes
G83-14000LPAxx-2	black	USB	Yes
G83-14100LPAxx-0	light grey	USB	No
G83-14100LPAxx-2	black	USB	No

xx = International layouts (see page 56)

Microsoft is a registered trademark of Microsoft Corporation.
Details of other approvals available on request.

MultiBoard G81-7000/8000

Keyboards with magnetic stripe card reader

Key benefits
- FTSC technology
- Robust and reliable
- Programmable magnetic stripe card reader for cards that are ISO 7810, -11, -12, 13, JIS, AAMVA-compliant
- Cherry Tools for programming keyboard and reader parameters (see page 57)

PS/2 keyboard:
- Optional programmable bar code decoder, automatic code recognition
- Programmable keys

USB keyboard:
- USB hub with 2 downstream ports at the right rear
- Magnetuc stripe card reader functional via Cherry Tools shown, user-defined

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	G81-7000: approx. 2050 g G81-8000: approx. 2250 g
Dimensions:	G81-7000: 405 x 220 x 64 mm G81-8000: 470 x 220 x 64 mm
Current input:	PS/2: max. 100 mA USB: max. 400 mA
Current output:	USB: max. 100 mA per downstream port
USB-hub keyboard:	Drivers for MS Windows 98, ME, 2000, XP
Reading cycles (magnetic stripe card reader):	approx. 1,000,000

Models with bar code decoder:
Interfaces: Bar code input: 6-pin DIN 240° connector on the right side and 9-pin SUB-D plug at the right rear (independent of one another)
Decodable bar codes: Code39, Code93, Code128, Code16k, Plessey, Industrial 2/5, Matrix 2/5, Codabar, Interleaved 2/5, Code11, UPC/EAN/JAN

Microsoft is a registered trademark of Microsoft Corporation.
Details of other approvals available on request.

Order description	Magnetic stripe card reader – Traces	Bar code reader Interfaces	Color	Connection	Hub
Standard version					
G81-8000LPAxx-0	1+2+3	2	light grey	PS/2	-
G81-8000LPBxx-0	1+2	-	light grey	PS/2	-
G81-8000LPCxx-0	1+2	2	light grey	PS/2	-
G81-8000LPDxx-0	1+2+3	-	light grey	PS/2	-
G81-8000LUAxx-0 *	1+2+3	-	light grey	USB	yes
G81-8000LUAxx-2 *	1+2+3	-	black	USB	yes
G81-8000LUBxx-0 *	1+2	-	light grey	USB	yes
G81-8000LUBxx-2 *	1+2	-	black	USB	yes
19” compact version					
G81-7000LPAxx-0	1+2+3	2	light grey	PS/2	-
G81-7000LPBxx-0	1+2	-	light grey	PS/2	-
G81-7000LPCxx-0	1+2	2	light grey	PS/2	-
G81-7000LPDxx-0	1+2+3	-	light grey	PS/2	-
G81-7000LUAxx-0 *	1+2+3	-	light grey	USB	yes
G81-7000LUAxx-2 *	1+2+3	-	black	USB	yes
G81-7000LUBxx-0 *	1+2	-	light grey	USB	yes
G81-7000LUBxx-2 *	1+2	-	black	USB	yes

*available as of July 2003

xx = International layouts (see page 56)

Microsoft is a registered trademark of Microsoft Corporation.

Details of other approvals available on request.

MultiBoard G80-8200/8212

Keyboards with magnetic stripe card reader and expanded layout

Key benefits
- MX technology with Gold Crosspoint contacts
- Expanded layout (120/121 keys)
- 48 inscribable keycaps
- Programmable magnetic stripe card reader for cards that are ISO 7810, -11, -12, -13, JIS, AAMVA-compliant
- Cherry Tools for programming keyboard and reader parameters (see page 57)

PS/2 keyboard:
- Optional programmable bar code decoder (automatic code recognition)
- Optional keyswitch
- Programmable keys

USB keyboard:
- USB hub with 2 downstream ports at the right rear
- Magnetic stripe card reader functional via Cherry Tools shown, user-defined

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 2250 g
Dimensions:	470 x 220 x 64 mm
Current input:	PS/2: max. 100 mA USB: max. 400 mA
Current output:	USB: max. 100 mA per downstream port
USB-hub keyboard:	Drivers for MS Windows 98, ME, 2000, XP
Reading cycles (magnetic stripe card reader):	approx. 1,000,000

Models with bar code decoder:
Interfaces: Bar code input: 6-pin DIN 240° connector on the right side and 9-pin SUB-D plug at the right rear (independent of one another)
Decodable bar codes: Code39, Code93, Code128, Code16k, Plessey, Industrial 2/5, Matrix 2/5, Codabar, Interleaved 2/5, Code11, UPC/EAN/JAN

Order description	Magnetic stripe card reader – Traces	Bar code reader Interfaces	Key switch	Color	Connection	Hub
G80-8200LPAxx-0	1+2	2	-	light grey	PS/2	-
G80-8200LPBxx-0	1+2	-	-	light grey	PS/2	-
G80-8200LPExx-0	1+2+3	2	-	light grey	PS/2	-
G80-8200LUAxx-0*	1+2+3	-	-	light grey	USB	yes
G80-8200LUAxx-2*	1+2+3	-	-	black	USB	yes
G80-8200LUBxx-0*	1+2	-	-	light grey	USB	yes
G80-8200LUBxx-2*	1+2	-	-	black	USB	yes
G80-8212LPAxx	1+2	2	1	beige	PS/2	-
G80-8212LPExx	1+2+3	2	1	beige	PS/2	-

*available as of August 2003

xx = International layouts (see page 56)

Microsoft is a registered trademark of Microsoft Corporation.
Details of other approvals available on request.

MultiBoard G81-8308

Keyboard with 24 programmable function keys in 10 switchable levels (240 program spaces)

Key benefits
- FTSC technology
- Robust and reliable
- LED display for identifying the levels
- Cherry Tools for programming the function keys (see page 57)

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 2250 g
Dimensions:	470 x 220 x 64 mm
Current consumption:	typically 35 mA

Order description	Color	Connection
G81-8308LPAxx-0	light grey	PS/2

G81-8004

G81-8005

G81-8006

Microsoft is a registered trademark of Microsoft Corporation.
Details of other approvals available on request.

MultiBoard G81-8004/5/6

Keyboards with smart card reader(s)

Key benefits
- FTSC technology
- Robust and reliable
- Max. two CT-API smart card reader(s) (lowering contacts)
- Optional plug in reader
- Optional programmable bar code decoder (automatic code recognition)
- Programmable keys
- Cherry Tools for programming/ configuration (see page 57)

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 2250 g
Dimensions:	470 x 220 x 64 mm
Current consumption:	max. 100 mA
Smart card terminal:	CT-API / MKT Protocols: T=0, T=1, S=8, S=9, S=10
Mating cycles (smart card reader):	approx. 200,000

Models with bar code decoder
Interfaces: Bar code input: 6-pin DIN 240° connector on the right side and 9-pin SUB-D plug at the right rear (independent of one another)
Decodable bar codes: Code39, Code93, Code128, Code16k, Plessey, Industrial 2/5, Matrix 2/5, Codabar, Interleaved 2/5, Code11, UPC/EAN/JAN

Order description	Smart card reader v = vertical h = horizontal	Plug In	Software Interface	bar code Reader Interfaces	Color	Connection
G81-8004LQAxx-0	1 (h)	-	CT-API	-	light grey	PS/2+RS232
G81-8005LQAxx-0	1 (v)	1	CT-API	-	light grey	PS/2+RS232
G81-8005LQBxx-0	1 (v)	-	CT-API	-	light grey	PS/2+RS232
G81-8006LQAxx-0	2 (v+h)	-	CT-API	2	light grey	PS/2+RS232
G81-8006LQBxx-0	2 (v+h)	-	CT-API	-	light grey	PS/2+RS232

xx = International layouts (see page 56)

Microsoft is a registered trademark of Microsoft Corporation.
Details of other approvals available on request.

MultiBoard G81-8002/8003

Keyboards with smart card and magnetic stripe card reader

Key benefits
- FTSC technology
- Robust and reliable
- Max. two CT-API smart card reader(s) (lowering contacts)
- Programmable magnetic stripe card reader for cards that are ISO 7810, -11, -12, -13, JIS, AAMVA-compliant
- Programmable bar code decoder (automatic code recognition)
- Programmable keys
- Cherry Tools for programming/ configuration (see page 57)

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 2250 g
Dimensions:	470 x 220 x 64 mm
Current consumption:	max. 100 mA
Smart card terminal:	CT-API / MKT protocols: T=0, T=1, S=8, S=9, S=10
Mating cycles (smart card reader):	approx. 200,000
Reading cycles (magnetic stripe card reader):	approx. 1,000,000

Interfaces: Bar code input: 6-pin DIN 240° connector on the right side and 9-pin SUB-D plug at the right rear (independent of one another)
Decodable bar codes: Code39, Code93, Code128, Code16k, Plessey, Industrial 2/5, Matrix 2/5, Codabar, Interleaved 2/5, Code11, UPC/EAN/JAN

Order description	Smart card reader v = vertical h = horizontal	Software Interface	Magnetic stripe card Reader Traces	Bar code Reader Interfaces	Color	Connection
G81-8002LQBxx-0	1 (v)	CT-API	1+2+3	2	light grey	PS/2+RS232
G81-8003LQAxx-0	2 (v+h)	CT-API	1+2+3	2	light grey	PS/2+RS232

GEMPLUS

Microsoft is a registered trademark of Microsoft Corporation.
Details of other approvals available on request.

MultiBoard G81-8010

Keyboard with 2 smart card readers, 4 plug ins, and magnetic stripe card reader

Key benefits
- FTSC technology
- GemPlus GemCore smart card reader for ISO7816-1/2/3/4-compliant cards (lowering contacts)
- Programmable magnetic stripe card reader for cards that are ISO 7810, -11, -12, -13, JIS, AAMVA-compliant
- Programmable bar code decoder (automatic code recognition)
- Programmable keys
- Cherry Tools for programming/configuration (see page 57)

Technical specifications

Cable length:	approx. 1.75 m
Weight (incl. packaging):	approx. 2250 g
Dimensions:	470 x 220 x 64 mm
Current consumption:	typically 100 mA
Smart card terminal:	GemPlus GemCore v1.21 GemPC410 and GCI400ECM-compatible Protocols: T=0, T=1, S=8, S=9 u. S=10, Gemplus Block Protocol (GBP), TLP224
Mating cycles (smart card reader):	approx. 200,000
Reading cycles (magnetic stripe card reader):	approx. 1,000,000

Interfaces: Bar code input: 6-pin DIN 240° connector on the right side and 9-pin SUB-D plug at the right rear (independent of one another)
Additional RS232 SUB-D input
Decodable bar codes: Code39, Code93, Code128, Code16k, Plessey, Industrial 2/5, Matrix 2/5, Codabar, Interleaved 2/5, Code11, UPC/EAN/JAN

Order description	Smart card reader v = vertical h = horizontal	Plug In	Software Interface	bar code Reader Interfaces	Color	Connection
G81-8010LQKxx-0	2 (v+h)	4	PC/SC GBP, TLP 224	2	beige	PS/2 + RS232

xx = International layouts (see page 56)

Microsoft is a registered trademark of Microsoft Corporation.
Details of other approvals available on request.

MultiBoard G80-8202

Keyboards with smart card and magnetic stripe card readers and expanded layout

Key benefits
- MX technology with Gold Crosspoint contacts
- CT-API smart card reader (lowering contacts)
- Programmable magnetic stripe card reader for cards that are ISO 7810, -11, -12, -13, JIS, AAMVA-compliant
- Programmable bar code decoder (automatic code recognition)
- Expanded layout (120/121 keys)
- 48 inscribable keycaps
- Programmable keys
- Cherry Tools for programming/configuration (see page 57)

Technical specifications
Cable length: approx. 1.75 m
Weight (incl. packaging): approx. 2250 g
Dimensions: 470 x 220 x 64 mm
Current consumption: max. 100 mA
Smart card terminal: CT-API / MKT
Protocols: T=0, T=1, S=8, S=9, S=10
Mating cycles (smart card reader): approx. 200,000
Reading cycles (magnetic stripe card reader): approx. 1,000,000

Interfaces:
Bar code input: 6-pin DIN 240° connector on the right side and 9-pin SUB-D plug at the right rear (independent of one another)
Decodable bar codes: Code39, Code93, Code128, Code16k, Plessey, Industrial 2/5, Matrix 2/5, Codabar, Interleaved 2/5, Code11, UPC/EAN/JAN

Order description	Smart card reader v = vertical h = horizontal	Software Interface	Magnetic stripe card Reader Traces	Bar code Reader Interfaces	Color	Connection
G80-8202LQAxx	1 (v)	CT-API	1+2+3	2	beige	PS/2+RS232

MultiBoard G80-8113/8116

Keyboards with touchpad, magnetic stripe card reader, expanded layout, optional smart card reader

Key benefits
- MX technology with Gold Crosspoint contacts
- Programmable magnetic stripe card reader for cards that are ISO 7810, -11, -12, -13, JIS, AAMVA-compliant
- Optional GemPlus GemCore 1.21 smart card reader (lowering contacts) for ISO 7816-1/2/3/4-compliant cards
- Optional programmable bar code decoder (automatic code recognition)
- Expanded layout (120/121 keys)
- 41 inscribable keycaps
- Programmable keys
- Cherry Tools for programming/configuration (see page 57)

Technical specifications
Cable length: approx. 1.75 m
Weight (incl. packaging): approx. 2000 g
Dimensions: 470 x 220 x 64 mm
Current consumption: max. 100 mA
Smart card terminal: GemPlus GemPC410
Protocols: T=0, T=1, S=8, S=9, S=10
Mating cycles (smart card reader): approx. 200,000
Reading cycles (magnetic stripe card reader): approx. 1,000,000

Interfaces:
Bar code input: 6-pin DIN 240° connector on the right side and 9-pin SUB-D plug at the right rear (independent of one another)
Decodable bar codes: Code39, Code93, Code128, Code16k, Plessey, Industrial 2/5, Matrix 2/5, Codabar, Interleaved 2/5, Code11, UPC/EAN/JAN

Order description	Smart card reader v = vertical h = horizontal	Software Interface	Magnetic stripe card Reader Traces	Bar code Reader Interfaces	Color	Connection
G80-8113LRAxx-0	-	-	1+2+3	2	light grey	2xPS/2
G80-8113LRBxx-0	-	-	1+2	-	light grey	2xPS/2
G80-8113LRCxx-0	-	-	1+2	2	light grey	2xPS/2
G80-8113LUAxx-0*	-	-	1+2+3	-	light grey	USB
G80-8113LUBxx-0*	-	-	1+2	-	light grey	USB
G80-8116LSAxx-0	1 (v)	PC/SC	1+2+3	2	light grey	2xPS/2+RS232

*available as of July 2003.

All keyboards are also available in black (-2)

G80-8116

G80-8113

Microsoft is a registered trademark of Microsoft Corporation.
Details of other approvals available on request.

xx = International layouts (see page 56)

Details of other approvals available on request.

G80-1950

POS keyboards user-definable with magnetic stripe card reader, optional bar code decoder

Key benefits
- MX technology with Gold Crosspoint contacts
- Reduced space requirements
- 105 user-definable keys
- Keypad user-definable with keycaps and various key formats (see page 58)
- Programmable magnetic stripe card reader for cards that are ISO 7810, -11, -12, -13, JIS, AAMVA-compliant
- Optional programmable bar code decoder (automatic code recognition)
- Cherry Tools for programming keyboard and reader parameters (see page 57)

Technical specifications
Cable length: approx. 1.75 m
Weight (incl. packaging): approx. 1000 g
Dimensions: 320 x 218 x 49 mm
Current consumption: typically 70 mA
Reading cycles (magnetic stripe card reader): approx. 1,000,000

Interfaces:
Bar code input: 9-pin SUB-D plug at right rear
RS232 input: 9-pin SUB-D plug at right rear
Decodable bar codes: Code39, Code93, Code128, Code16k, Plessey, Industrial 2/5, Matrix 2/5, Codabar, Interleaved 2/5, Code11, UPC/EAN/JAN

Order description	Magnetic stripe card reader – Traces	Bar code reader Interfaces	RS232 Interfaces	Color	Connection
G80-1950PPAXA	1+2	1	-	beige	PS/2
G80-1950PPBXA	2	-	-	beige	PS/2
G80-1950PQAXA	1+2	1	-	beige	PS/2
G80-1950PQDXA	1+2+3	1	-	beige	PS/2
G80-1950PSAXA	1+2	1	1	beige	PS/2+RS232
G80-1950PTAXA	1+2	-	1	beige	PS/2+RS232

Microsoft is a registered trademark of Microsoft Corporation.
Details of other approvals available on request.

TouchBoard G80-11900

19“ keyboard with touchpad and expanded layout

Key benefits
- MX technology with Gold Crosspoint contacts
- Space-saving and ergonomic
- Integrated touchpad (can be used with standard mouse drivers)

Technical specifications
Cable length: approx. 1.75 m
Weight (incl. packaging): approx. 1200g
Dimensions: 415 x 193 x 37 mm
Current consumption: typically 35 mA
Number of keys: 104/105

Order description	Color	Keyboard connection	Touchpad connection
G80-11900LPMxx-0	light grey	PS/2	PS/2
G80-11900HRMxx	black	PS/2	PS/2
G80-11900LTMxx-0	light grey	PS/2 or DIN (AT)	PS/2 or RS 232
G80-11900HVMxx	black	PS/2 or DIN (AT)	PS/2 or RS 232

xx = International layouts (see page 56)

COUNTRY VERSIONS

xx in the keyboard's number key

European keyboard layout

Country code	Country
BE	Belgium
CH	Switzerland
DE	Germany
DK	Denmark
ES	Spain
FR	France
GB	English (UK)
IT	Italy
NO	Norway
PO	Portugal
SF	Sweden/Finland

Other versions upon request.

Example: G80-3000LPMDE-0 = German layout
G81-3000LRNIT-0 = Italian layout
G83-6108LCMGB-0 = UK English layout
M83-13900FR = French layout

Fig. European keyboard with Windows keys (105 keys)

International keyboard layout

EU	US English/international with €
US	English (US)

Other versions upon request.

Example: G81-3000LRNUS-0 = US English layout
G83-6108LCMEU-0 = US English/international

Fig. International keyboard with Windows keys (104 keys)

SOFTWARE

KeyM@n software

The easy software for cool users
Software for user definition of the function keys. The KeyM@n software allows you the user to define all function keys. In addition, you can also adjust the "Scroll" key to suit your personal preferences.

Simple programming
During the development of the KeyM@n software, user ergonomics was our foremost concern.
KeyM@n enables you to assign the HotKeys, that is, the free function keys, easily and quickly. To do this, you can, for example, place the "Quick Drop" icon anywhere on the desktop. By dragging a link to the icon, you assign the desired Internet page to a HotKey.
Thus it is quick and easy to assemble your favorites.
With the XpressList function, you can assign several links to a key. Instead of a link, you can also program programs, files, directories, system functions and key macros.
With the help of the "Ctrl," "Alt," and "Shift" keys, you can assign all HotKeys on four levels.

The assignment of the HotKeys is stored in configuration files. With the "KeyPort" program, you can export or import key assignments so that you can make them available to other users or safe them, etc.
In addition, you can program the HotKeys via the Control Panel (keyboard settings) or via the "Send to" command.

Updates
You can download the current version of the KeyM@n software for free at http://support.cherry.de.
The KeyM@n software runs under Windows 98, Me, NT 4.0, 2000, and XP.

Cherry Tools

Configuration and driver software for programming magnetic stripe card reader, bar code reader, and the (additional) keys or the keyboard itself

The Cherry Tools consist of:
- "Designer" application
- "KeyViewer" application
- Drivers for magnetic stripe card reader of USB keyboards

The Designer enables:
- Configuration of the magnetic stripe card reader
- Configuration of the bar code reader
- Configuration of the keyboard
- Programming of the function keys or of the keyboard itself
- Update of the keyboard firmware

The KeyViewer displays the assignment of programmed keys.

Updates
You can download the current version of the Cherry Tools for free at http://support.cherry.de
.

Power Pack

power supply for PCs with low current output on the PS/2 port (No. 636-0151)

Keyboard accessories for G80-1950

Description	Format	Color	Stock code
Keycap carrier	1 x 2 horizontal	beige-grey	628-16859
		grey-white	628-16863
	1 x 2 vertical	beige-grey	628-16858
		grey-white	628-16862
	2 x 2	beige-grey	628-16860
		grey-white	628-16864
Keycap	1 x 2 horizontal	transparent	628-7380
	1 x 2 vertical	transparent	628-14386
	2 x 2	transparent	628-16861
Blind cover	1 x 1	grey-white	628-16929
Keycap label	A4, pre-punched 1 x 1	grey	643-2751
		pink	643-2752
		light green	643-2753
	A4, 1 x 1, 2 x 2 pre-punched	grey	643-2754
		pink	643-2755
		light green	643-2756
	8½ 11” US-format	grey	643-2761
	1 x 1	pink	643-2762
		light green	643-2763
	8½ 11” US-format	grey	643-2764
	1 x 2, 2 x 2	pink	643-2765
		light green	643-2766

WetEx®

Flexible protective film for keyboards.
Protects keyboards from liquid spills, dust and dirt.

Technical specifications

Thickness:	0.25 mm
Hardness:	85 shore
Spec. weight:	1.13 g
Tearing strength:	9000 PS
Modulus of elasticity:	1200 PSI
Elongation:	450 %
Tensile strength:	400 lbs/inch
Abrasion resistance:	6
Usage temperature:	-40 °C to +71°C

Order description

Keyboard family	Layout	with Windows keys	without Windows keys
G80/G81-3000	European	615-5080	615-5114
	English (US)	615-5079	615-5115
G80/G81-1800	European	615-5113	615-0334
	English (US)	615-5112	615-0335
G84-4100	European	615-5118	615-5044
	English (US)	615-5118	615-5044
G84-4400	European	-	615-5140
G83-6104	English (US)	615-5138	-
G83-6105	European	615-5139	-
G80-11900	European	615-5141	-
	English (US)	615-5142	-
G80-1501	European	-	615-5045
G83-13000	European	615-5143	-

PRODUCT FINDER

		Page	Technology				Connection				Special features								
			MX	FTSC	NTK	ML	Combo (PS/2·USB)	PS/2	USB	DIN (AT)	wireless	USB-Hub	Touchpad	Trackball	programmable Keys	Smartcard Reader	Magnetic stripe card Reader	Fingerprint Sensor	Other
CyBo@rd	G83-13000	14			■		■								■				
CyBo@rd USB hub	G83-13500	14			■				■			■			■				
CyBo@rd Plus wireless optical	M83-13900	14			■			■			■				■				
Power WheelMouse optical	M5000/M-5001	16					■												
Power WheelMouse wireless optical	M-6000	16					■				■								
Green Line	G83-6400	20			■			■											
Ultra-low-profile compact keyboard	G84-4100	24				■	■		■	■				■					
Keypad	G84-4700	24				■		■	■						■				
Standard keyboard	G80-3000	28	■					■	■			■							
19” keyboard	G80-1800	28	■					■		■									
Keypad	G80-3700	28	■					■							■				
Standard keyboard	G81-3000	30		■				■	■	■									optional without Windows keys
19” keyboard	G81-1800	30		■				■	■	■									optional without Windows keys
Standard keyboard	G81-3504	30		■					■			■							
Standard keyboard	G83-6104/6105	32			■			■	■										
Standard keyboard colored	G83-6104/6105	32			■			■											
Combo keyboard	G83-6107/6108	34			■		■								■				
Standard keyboard	G83-6504	34			■				■			■							
Standard keyboard	G83-6300	34			■			■											

PRODUCT FINDER

			Technology				Connection				Special features								
		Page	MX	FTSC	NTK	ML	Combo (PS/2·USB)	PS/2	USB	DIN (AT)	wireless	USB-Hub	Touchpad	Trackball	programmable Keys	Smartcard Reader	Magnetic stripe card Reader	Fingerprint Sensor	Other
Smart card keyboard to read health insurance cards	G80-1501	38	■					■								■			ITSEC E2 low
SmartBoard	G83-6700	38			■			■								■			ITSEC E2 high
SmartBoard	G81-8015	38		■				■								■			ITSEC E2 high
SmartBoard	G83-6716	40			■			■								■			
SmartBoard	G81-8016	40		■				■								■			
SmartBoard	G83-6702/6759	40			■				■			■				■			
SmartBoard	G83-6733	42			■				■							■			EMV-compliant
Smartcard reader	ST-1000	42							■							■			
FingerTIP ID Board	G83-14000/14100	42			■				■			■				■		■	
MultiBoard	G81-7000/8000	44		■				■	■			■					■		
MultiBoard	G80-8200/8212	46	■					■	■			■			■		■		
MultiBoard	G81-8308	48		■				■							■				
MultiBoard	G81-8004/8005/8006	48		■				■								■	■		
MultiBoard	G81-8002/8003	50		■				■								■	■		
MultiBoard	G81-8010	50		■				■								■	■		
MultiBoard	G80-8202	52	■					■							■	■	■		
MultiBoard	G80-8113/8116	52	■					■	■				■		■	■	■		
POS keyboard	G80-1950	54	■					■							■		■		
TouchBoard	G80-11900	54	■					■		■			■						